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2 (thread-20497-page-2.html)

3 (thread-20497-page-3.html)

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[Development] How to create a flashable zip for Mediatek or Unisoc / Spreadtrum



hovatek (https://www.hovatek.com/forum/user-1.html)

(user-1.html) Administrator



Posts: 49,074 Threads: 1,307 Joined: Oct 2013

Reputation: 432 (reputation.php?uid=1)

25-09-2017, 05:36 PM

#1 (thread-20497-post-120059.html#pid120059)

(?)

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https://www.hovatek.com/forum/thread-20497.html

(https://suivde.isofo? those who wish to create a custom recovery-flashable zip from boot.img and system.img. utmThisoardelwtitlsc/bwwevinhtoarade/kwtoen/forum/thread-

20497. htt Yok Lutvis hatdt yppert- stickligd\_alisp stocking\_alisp stocking\_alisp

 You have USB port problems and can therefore only rely on SD card and custom recovery mode for flashing

# Obtaining boot.img and system.img

Before you proceed, you first need to obtain the boot.img and system.img . You have two options here:

- 1. Extract both from the phone
- 2. Extract both from the stock rom / firmware

# Mediatek (MTK)

If you wish to extract both files from the phone then consider Miracle Box (https://www.hovatek.com/forum/thread-13347.html) (ensure to rename from .bin to .img) or Wwr\_MTK (https://www.hovatek.com/forum/thread-21970.html) . If you can find the stock ROM / firmware for your model @ https://www.hovatek.com/forum/forum-89.html (https://www.hovatek.com/forum/forum-89.html) then simply download the zip, rar or 7z file and extract using 7zip or Winrar.

# Spreadtrum (SPD)

If the phone is rooted then consider the adb dd method (https://www.hovatek.com/forum/thread-1405.html) or use a Chinese box like Chinese Miracle II SPD (https://www.hovatek.com/forum/thread-21776.html) or NCK Pro Box. If you can find the stock ROM / firmware / PAC file @ https://www.hovatek.com/forum/forum-89.html (https://www.hovatek.com/forum/forum-89.html) then extract the contents of the pac file (https://www.hovatek.com/forum/thread-6236.html)

# Requirements for creating flashable zip

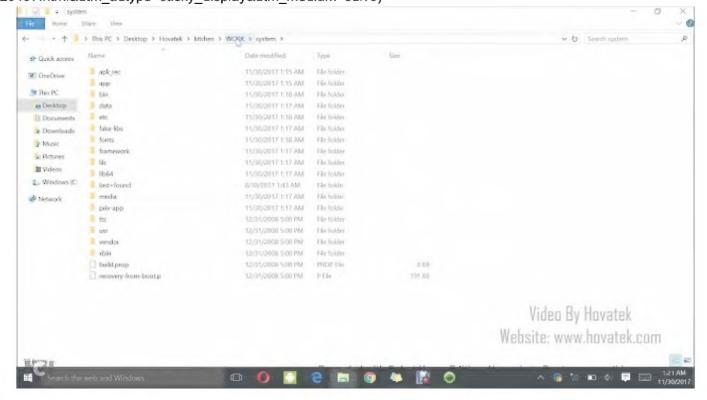
- Download Assayyed Kitchen @ https://mega.nz/#!fAlkBZKQ!aS-9yNL9GKgVz...iz-1KnsydA (https://www.hovatek.com/redirectcode.php? link=aHR0cHM6Ly9tZWdhLm56LyMhZkFJa0JaS1EhYVMtOXIOTDIHS2dWemdKZDIDNURXSnRqRF9mTI
- Boot.img & System.img (obtained using steps above)
- · Windows PC & USB cord
- Custom recovery (for flashing your zip once created). You can use our TWRP porters at https://www.hovatek.com/forum/forum-39.html (https://www.hovatek.com/forum/forum-39.html) if you don't have one

# Steps to create a flashable zip from boot.img and

(forum-88.htm

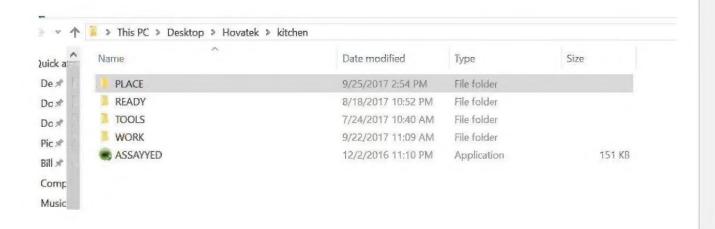
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(https://sulvo.com? utr\$\_exothreevithtepsulvovialvbeboatek.@nhttpsulvythateateb/x-cyFvljO\_g (https://youtu.be/x-cyFvljO\_g) 20497.html&utm\_adtype=sticky\_display&utm\_medium=sulvo)



# Step 1: Unpacking boot.img and system.img

1. Unzip Assayyed Kitchen



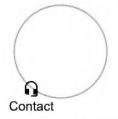
2. Copy the boot.img and system.img into the PLACE folder

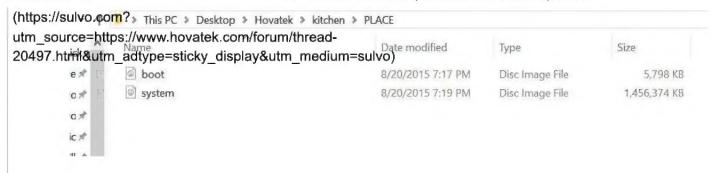


Download (forum-88.html)

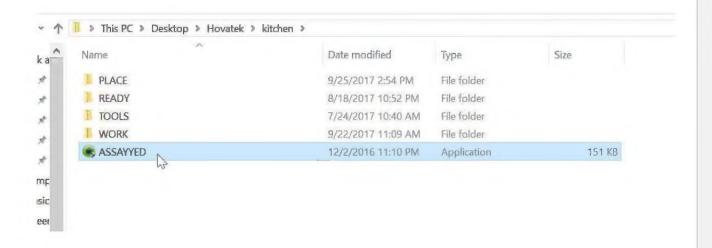
**□**Training

(https://www.hovatek,com/training)

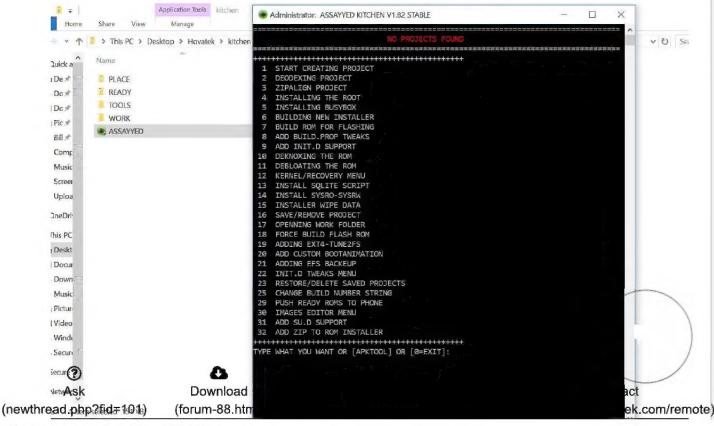




### 3. Run ASSAYYED.exe



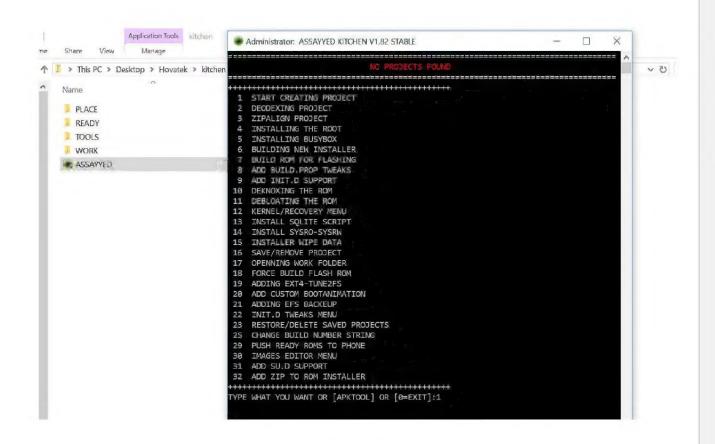
### 4. Wait till the Dashboard opens



(https://sulvo.com?

utm\_source=https://www.hovatek.com/forum/thread-

20497.5trTiv@etrn(waltopes-stricte)/TARSDIGREGATINGetRico.#50170) then tap Enter

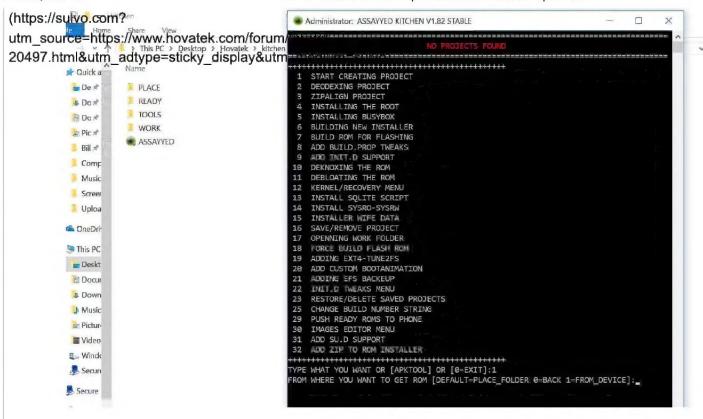


6. Tap Enter (which is for DEFAULT)

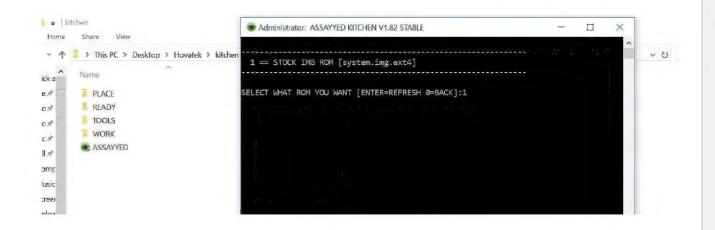


Ask
(newthread.php?fid=101)

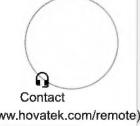
Download (forum-88.html) Training
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7. Type 1 (which is for STOCK IMG ROM [system.img.ext4] ) then press Enter



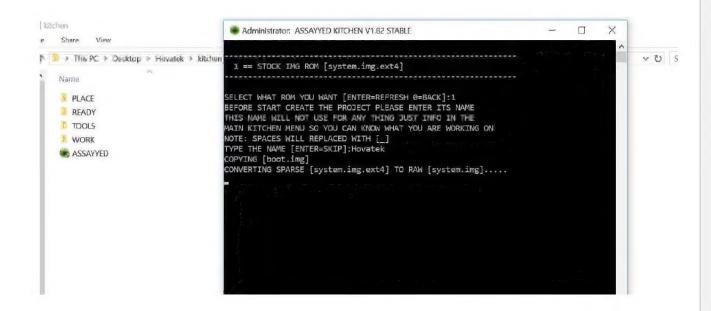
8. Type any name for your Project (Its named Hovatek in this example) then tap Enter



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9. Wait while the tool renames and copies the files to the WORK folder



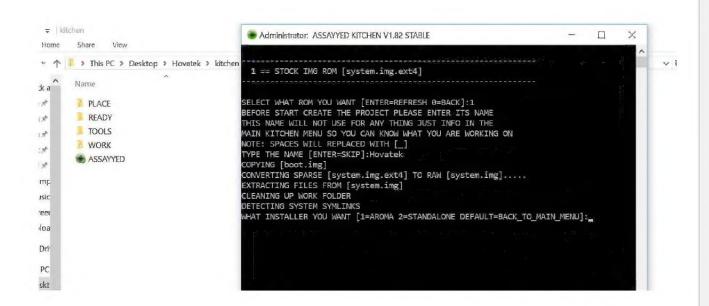
The tool should now begin extracting the contents of system.img



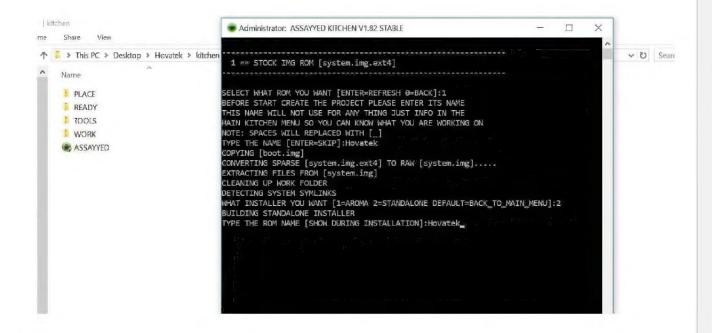
(https://sulvo.com?

utm\_source=https://www.hovatek.com/forum/thread-

204971.htr3:lde.cotrthecitystalletigloy\_whisplay&ustentypec3u(marisulrive)STANDALONE) if you're not sure which to select then tap Enter



12. Type a name for the ROM (its named Hovatek in this example) then tap Enter

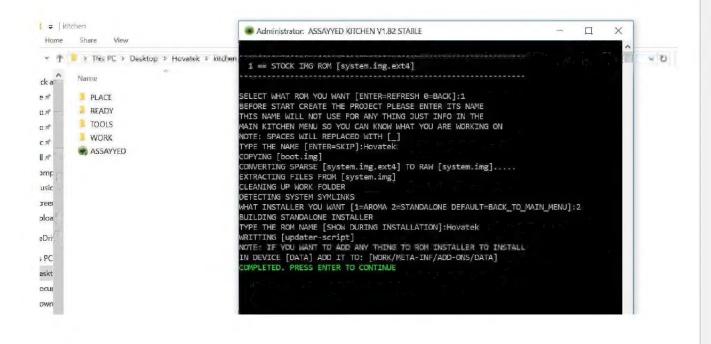


13. Wait while the tool generates the updater-script and finishes up

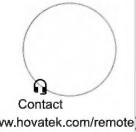




You should see COMPLETED. PRESS ENTER TO CONTINUE, tap Enter to finish



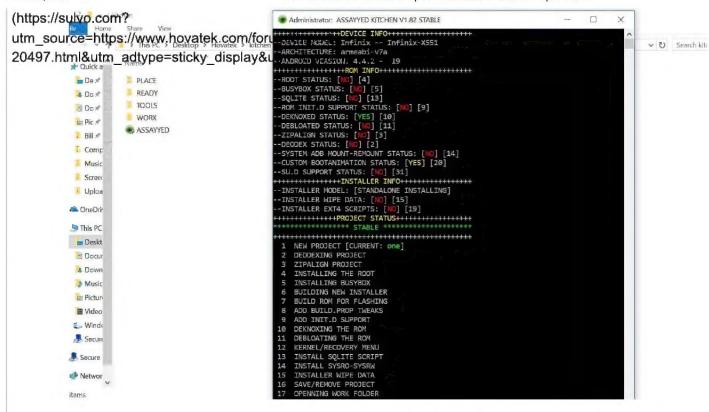
You should now see the Project details in the kitchen



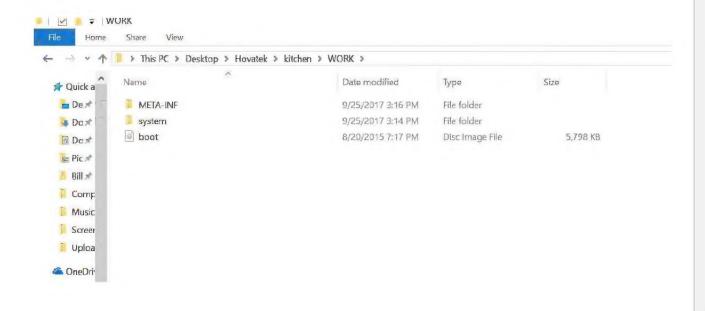
② Ask (newthread.php?fid=101)

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16. In the WORK folder, you should find a META-INF folder, system folder and boot.img



# Step 2: Tweaking / Optimizing the ROM

Make whatever changes you want to the ROM but note that making the wrong changes could cause the ROM to brick your phone once flashed

Ask (newthread.php?fid=101)

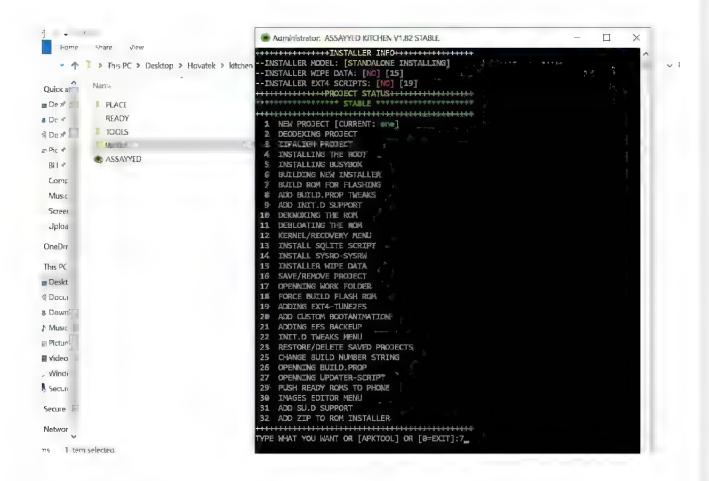
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# (httst/epv9:orRepacking the flashable zip utm\_source=https://www.hovatek.com/forum/thread-

20497.htm work (which is stelly) drop My som Flash UNG and tap Enter



 Select the Build method you want. Each has its advantage but I often opt for 3 (which is RAW) because that builds back each file in .img format; this way, I can flash using custom recovery, fastboot or SP Flash tool + scatter file if Mediatek



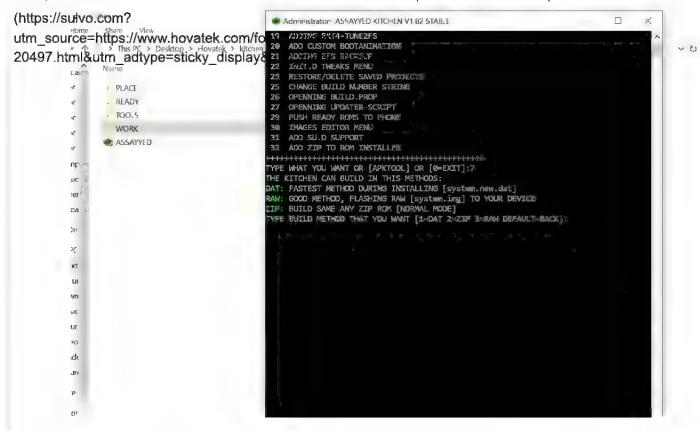


(forum-88.html)

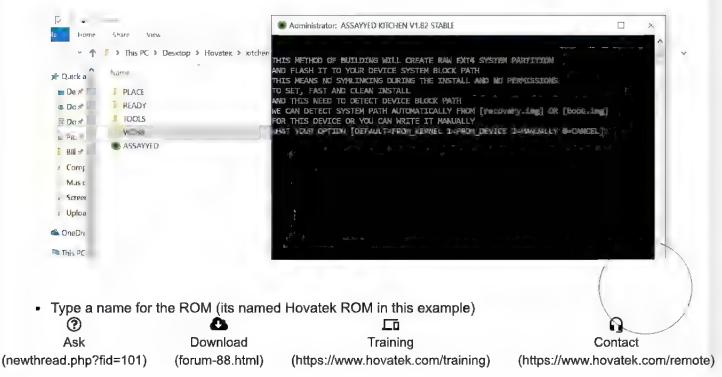
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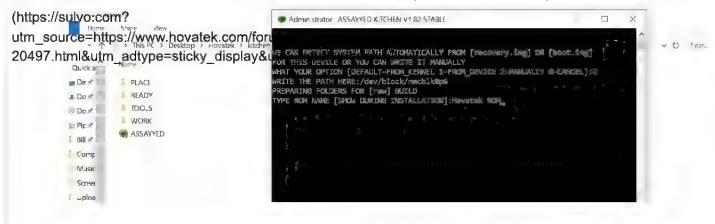
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• The tool now needs to get the mount point for /system. You may choose DEFAULT (which is FROM\_KERNEL) in which case the tool will attempt to enumerate the mount point for /system from the boot.img, 1 (which is FROM\_DEVICE) in which case the tool will attempt to enumerate the mount point from the connected device or 2 (which is MANUALLY) in which case you supply the mount point.
I recommend DEFAULT (just tap Enter) but if you get mount errors when flashing the zip in custom recovery then repeat this process and go for option 2. Ensure to get the device's /system mount (https://www.hovatek.com/forum/thread-11203 html) for Manual method

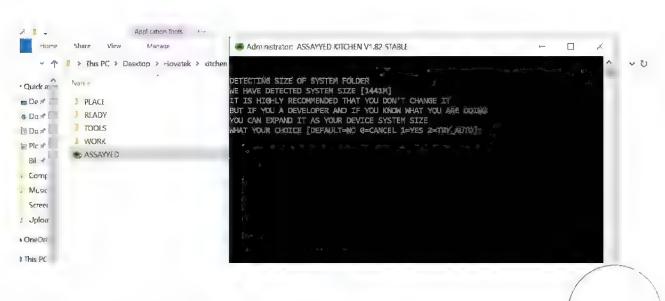




Wait while the tool prepares the updater-script and symlinks



 When prompted whether or not to expand system, don't type anything, just tap Enter (which is DEFAULT=No)



• When prompted to Zipalign, you may opt for Yes or No. If you don't know what Zipalign is then ⇒ 3 ∋ 0 (which is NO) and tap Enter

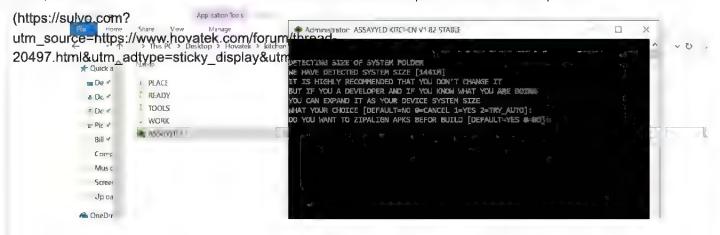
Ask (newthread.php?fid=101)

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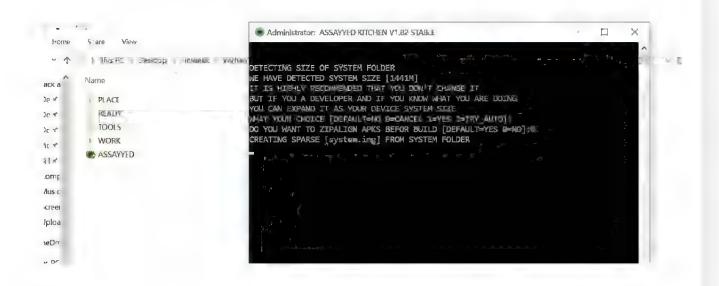
Download (forum-88.html)

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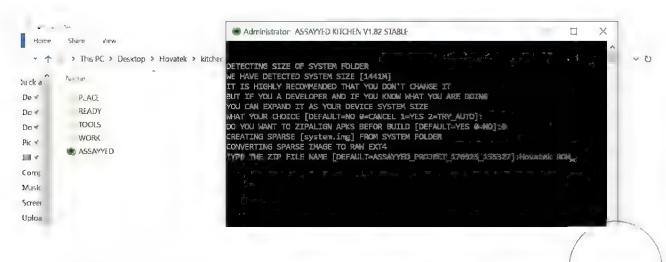
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· Wait while the tool begins packing the ROM



Type what you wish to name the final flashable zip as (its named Hovatek ROM in this example)



• Choose the compression level for the zip. I often stick with default which is 5 then press Enter

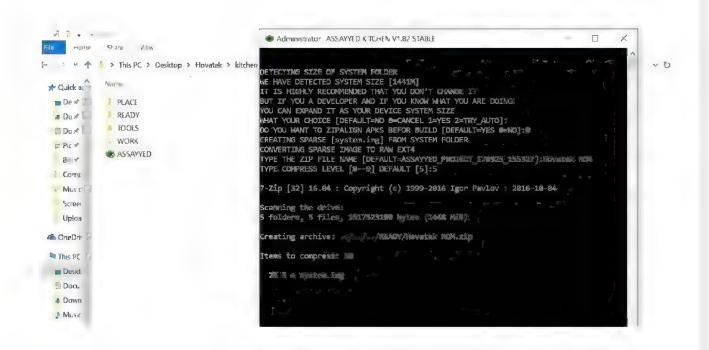
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Wait while the flashable zip (Hovatek ROM.zip) is being prepared and packed

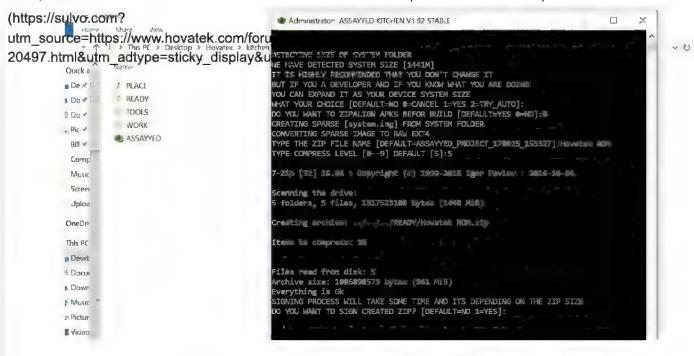


 You'll be prompted to sign the zip, I usually choose No (DEFAULT) by typing nothing and tapping Enter. You could go ahead to sign the zip if you wish.

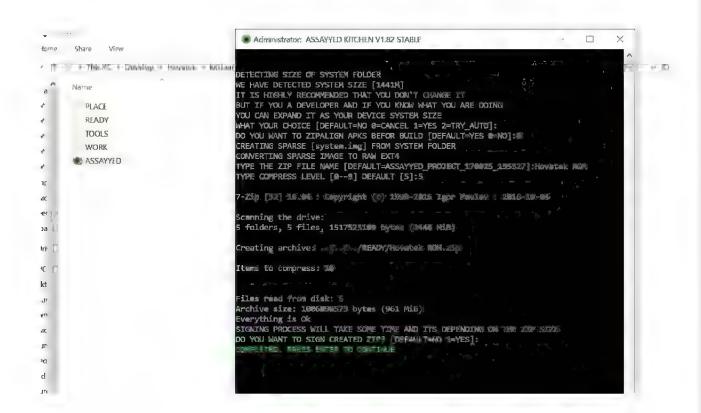


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· Once done, you should see COMPLETED PRESS ENTER TO CONTINUE, tap Enter



 You should find the flashable zip (Hovatek ROM.zip in this case) in the READY folder. Copy it to your phone storage or SD card and flash in custom recovery

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(https://sulvo.com? READY
utm\_sour ps://wwwi.hovatek.com/forum/thread20497.htmf&utm\_adtype≥sticky\_display&utme/medium≥stilvo)>

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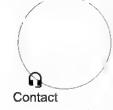
### **Important Notice**

- The created flashable zip can only be flashed in a custom recovery. Attempting to flash it in a stock recovery will give a signature error
- Its important you only flash a zip created from images for your device or from its firmware. Flashing a zip meant for another device could brick your phone
- · Ensure to make a custom recovery backup before flashing a customized rom
- Its recommended you first create an unmodified flashable zip (no modification using the tool) before creating modified versions

### **Video Transcript**







(https://sulvo.com?

utm\_source=https://www.hovatek.com/forum/thread-

20497. http://displaysidisplay

Download Assayyed kitchen, check out website for the download link. You'll need the boot.img and system.img pasted in the PLACE folder. Launch Assayyed kitchen [resizing]. Select 1 (Start Creating Project) & tap Enter Its asking me where I want to get the ROM from. I'll just tap Enter since the default is PLACE folder. I have Stock IMG ROM which is by boot and system image. I type 1 and tap Enter. Its asking me to name the ROM I'll name it Hovatek then tap Enter. It'll copy, rename then extract. Some people start with system new.dat

For that kind of situation, you use MTK extractor to convert from dat to img format then return to Assayyed Its very important you have enough space on your PC because you might run into the "Clean up working folder" error and you'll find out that system wasn't extracted. In that kind of situation, you either don't have enough space or you're trying to extract a signed image [rephrase]. We have a guide on how to unsign an image at our Forum After you unsign, you can the bring the image back to Assayyed. This process takes a while so be patient.

[extracting files from system.img]. Done extracting. What installer do you want? I go with Standalone (2) ROM name, I maintain Hovatek ROM. Wait while it generates the needed files (updater, meta-inf etc). Completed, press Enter to continue. I have my project details displayed; meta-inf, system unpacked You can begin to make any modification you want. I won't be making any. Once done, its time to repack

I'll select Build ROM for flashing (7) then tap Enter. Its asking how you want to pack, I usually go for RAW because it creates boot and system.img so you can decide to flash via fastboot or any flash tool you wish to use Now, its asking me for the /system mount point. I could select kernel (boot.img), device (I connect) or manual I advise you go for the default (kernel). If you encounter /system mount errors then get the mount point then go for manual. We have a guide on how to find the mount point of Mediatek or Spreadtrum at our Forum.

Type the name of your ROM, tap Enter. [Creating Symlinks]. Its asking If I want to expand my system.img I advise you go with No but If you know what you're doing, select Yes. Asking If I want to zipalign, I select No. [Creating system.img], [Converting Sparse Image to RAW EXT4]. Asking me to type the name of the zip file I maintain Hovatek ROM then tap enter. Compressin level (for the flashable zip), I select default (5) [packing in progress]. Asking If I want to sign the zip, I select No (tap Enter).

Done! To check the flashable zip open the ready folder. In my case, I have boot and system image. That's how to create a flashable zip (Mediatek & Spreadtrum) from the boot and system image using Assayyed kitchen.

② Ask Download

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11/20/22, 2:44 PM How to create a flashable zip for Mediatek or Unisoc / Spreadtrum (https://sulvo.com? purce thitps://www.hovatek.com/forum/thread-9526.html) for Free Support. Please upgrade to Private Support (https://www.hovatek.com/remote) if you can't wait. (This post was last modified: 20-10-2019, 06:30 PM by hovatek (https://www.hovatek.com/forum/user-1.htm.) ) ⊕ Website (https://www.hovatek.com) ☐ Find (search.php?action=finduser&uid=1) Reply (newreply.php?tid=20497&replyto=120059) eaz (https://www.hovatek.com/forum/user-10452.html) (user-10452.html) Posts: 76 Threads: 7 Joined: Apr 2015 Reputation: 0 (reputation php?uid=10452) 27-11-2017, 10:47 AM #2 (thread-20497-post-124738.html#pid124738) Alright will try this at night am at work now Thanks very much.. Sent from my htc desire 626g using Tapatalk Find (search.php?action=finduser&uid=10452) Reply (newreply.php?tid=20497&replyto=124738) paeffiong (https://www.hovatek.com/forum/user-19114.html) user-19114.html) Senior Member n n n n n Posts, 138 Threads: 1 Joined: Aug 2015 Reputation: 2 (reputation php?uid=19114) 09-02-2018, 01:20 PM #3 (thread-20497-post-130105.html#pid130105) I will try this out later tonight via airtel night plans Find (search.php?action=finduser&uid=19114) Reply (newreply.php?tid=20497&replyto=130105)

# fred@mike (https://www.hovatek.com/forum/user-94795.html) (user-94795.html) Junior Member

Posts: 15 Threads 2 Joined: Apr 2018

Reputation: 0 (reputation.php?uid=94795)

05-05-2018, (ASS)9 AM (newthread.php?fid=101)

Download (forum-88.html)

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#4 (thread-20497-post-135**%2(H96#**pid135762)

(https://www.hovatek.com/training)

(https://sulvo.com? ı end up on a message saying there is no project in work folder please create project first utm\_source=https://www.hovatek.com/forum/thread-20497.html&utm\_adtype=sticky\_display&utm\_medium=sulvo)

☐ Find (search.php?action=finduser&uid=94795)

Seply (newreply.php?tid=20497&replyto=135762)



# hovatek (https://www.hovatek.com/forum/user-1.html)

(user-1.html)



Posts: 49,074 Threads: 1,307 Joined: Oct 2013

Reputation: 432 (reputation.php?uid=1)

05-05-2018, 11:17 AM

#5 (thread-20497-post-135784.html#pid135784)

fred@mike Wrote: (https://www.hovatek.com/forum/post-135762.html#pid135762)

(05-05-2018, 05:39 AM)

i end up on a message saying there is no project in work folder please create project first

Did you copy boot.img and system.img to the right folder?

### Note!

We have a reply schedule (https://www.hovatek.com/forum/thread-9526.html) for Free Support. Please upgrade to Private Support (https://www.hovatek.com/remote) if you can't wait.

⊕ Website (https://www.hovatek.com) Q Find (search.php?action=finduser&uid=1)

Reply (newreply.php?tid=20497&replyto=135784)

fred@mike (https://www.hovatek.com/forum/user-94795.html)

(user-94795.html) Junior Member

Posts: 15 Threads: 2

Joined: Apr 2018

Ask ใ<del>ห้€พีที่ให</del>้อิสริศัก?Mu=101)

Download (forum-88.html)

 $\Box$ Training Reputation: 0 (reputation opp?uid=94795)

(https://www.hovatek.com/traff6iffg/ead-2010799994-436352-atek.eod136352-te)

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(https://sulvo.com?
Thanks for replying i managed to solve the problem it was a sign .img file so i unsign and then repeat the utm\_source=https://www.novatek.com/forum/thread20 1997 htmlattin adtype=sticky displayating 2 nd edium=sulvo
reboot it keeps on rebooting i tried all the option given on the kitchen but was unsuccessful

Find (search.php?action=finduser&uid=94795)

← Reply (newreply.php?tid=20497&replyto=136352)



hovatek (https://www.hovatek.com/forum/user-1.html)

(user-1.html) Administrator



Posts: 49,074 Threads: 1,307 Joined: Oct 2013

Reputation: 432 (reputation.php?uid=1)

14-05-2018, 10:38 AM

#7 (thread-20497-post-136406.html#pid136406)

fred@mike Wrote: (https://www.hovatek.com/forum/post-136352.html#pid136352)

(13-05-2018, 06:47 AM)

Thanks for replying i managed to solve the problem it was a sign .img file so i unsign and then repeat the procesd and now it works. But im having a 2nd problem everytime I successfully flash my rom via twrp when i reboot it keeps on rebooting i tried all the option given on the kitchen but was unsuccessful

Did you apply root and busybox?

### Note!

We have a reply schedule (https://www.hovatek.com/forum/thread-9526.html) for Free Support. Please upgrade to Private Support (https://www.hovatek.com/remote) if you can't wait.

Website (https://www.hovatek.com)

☐ Find (search.php?action=finduser&uid=1)

Seply (newreply.php?tid=20497&replyto=136406)



(user-62968.html)

xerxes (https://www.hovatek.com/forum/user-62968.html)

Senior Member



Posts: 8,349 Threads: 189 Joined: Jun 2015

Reputation: 95 (reputation.php?uid=62968)

26-08-2018, 05:48 PM

#8 (thread-20497-post-145331.html#pid145331)

I applied the same procedure as the scribed above on my Teaning amon cx air mt6737 and roid 70 reads finally (reads to be same procedure as the scribe that the scribe that the same procedure as the scribe that the sc

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20497.html&utm\_adtype=sticky\_display&utm\_medium=sulvo)

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Senior Member



Posts: 8,349 Threads: 189 Joined: Jun 2015

Reputation: 95 (reputation.php?uid=62968)

27-08-2018, 10:13 AM

#9 (thread-20497-post-145379.html#pid145379)

Mikesew Wrote: (https://www.hovatek.com/forum/post-145331.html#pid145331) (26-08-2018, 05:48 PM)

I applied the same procedure as described above on my Tecno camon cx air mt6737 android 7.0 and finally ended with bootloop. Is there any fix for this? Or the tool is not compatible with the higer android versions with secured boot?

we'll need to know what's wrong with your device and how the problem started.

Please create a new thread so we focus on it.

See https://www.hovatek.com/forum/thread-514.html (https://www.hovatek.com/forum/thread-514.html) for how to create a thread.

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(user-85050.html)

nhatnguyenvan58 (https://www.hovatek.com/forum/user-85050.html)

Enthusiastic Member

Posts: 10 Threads: 1 Joined: Feb 2018

Reputation: 0 (reputation.php?uid=85050)

03-09-2018, 11:55 AM

#10 (thread-20497-post-146241.html#pid146241)

I'm doing follow your all step but it's can't boot up ,still stuck boot logo now !

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X3non (https://www.hovatek.com/forum/user-1116.html)

Last Post (thread-32744-lastpost.html) by Bavin (https://www.hovatek.com/forum/user-392639.html)

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Spreadtrum/Unisoc twrp porter for android 10 (thread-39451.html)

SPDfan (https://www.hovatek.com/forum/user-404208.html)

Last Post (thread-39451-lastpost.html) by X3non (https://www.hovatek.com/forum/user-1116.html)

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